P Q A 8 2 0

SINGLE PHASE
"SYSTEM" LED:
3 PHASE NO NEUTRAL
"SYSTEM" LED:
3 PHASE + NEUTRAL
"SYSTEM" LED:
IP65 (CLOSED CASE)
HT

Artificial Intelligence.

Thanks to the creation of App HTanalysis it is possible to interface HT last generation instruments with tablets and smartphones. **HTanalysis** is a professional software allowing to display and look at measurements or recordings on your devices then sharing them on HTCloud database.
HTanalysis permits to create professional reports complete with pictures, texts, video and voice notes. Interfacing the instrument with your device's display you can look at a fast and detailed tracking of the recorded quantities on touch-screen.

PQA820

- It enables you to display **recordings of voltage, current, power, harmonics, THD%, cosphi and frequency**.
- It enables you to display **all waveforms, vector diagrams and harmonics instantly**.
- **It enables you to store all recordings** into **HTCloud** database **sharing** them through **mail** as well.

MacroTestG3

- It enables you to create **reports** complete with **pictures, videos, text and voice notes, store** them into **HTCloud** database and share them through **mails**.

Share.
Whenever, whatever and wherever.

Install App HTanalysis to avail yourself of **HTCloud** database and **share** measurement results and recordings with your colleagues **from any place on the planet**.

HT Cloud™

Power analysis and energy saving evolve.
In one finger.

383 parameters recorded simultaneously

Suitable to any environment

Self-powered

Wi-Fi and USB

HTanalysis App for iOS™ and Android™

Share. Any style, place and time*

Multimedia notes

100% "Made in Italy" technology and quality

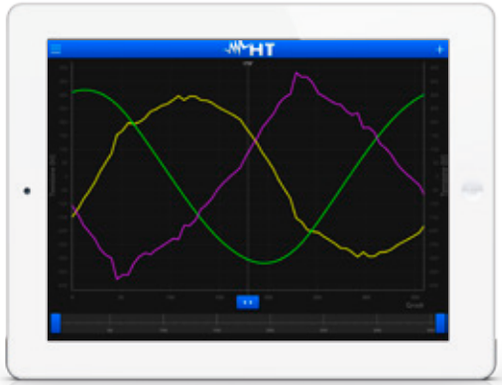
- **Turn your smartphone or tablet into the most advanced power and energy consumption analyzer in the world.**
- **3 system types:** Single-phase, 3-wire Three-phase, 4-wire Three-phase.
- **Easy to set up** directly **from Smartphone or Tablet**.
- **Technology and straightforwardness.** Immediate display of all recordings and simple analysis thanks to rapid gestures and detailed zoom on all quantities.

* Using HTanalysis App for iOS™ or Android™ on Tablet or Smartphone. The App can be downloaded for free on AppStore™ or Playstore™

- **Real Time**. Instant display of all wave forms, harmonics, vector diagrams and summary function for a prompt reading of the most important parameters.
- **Energy saving**. Discover absorption capacity of all your equipment with one click and save energy.
- **383 parameters which can be displayed simultaneously.**
- **Jump function**. Relation between time and frequency domains or between power and energy consumed available instantly.

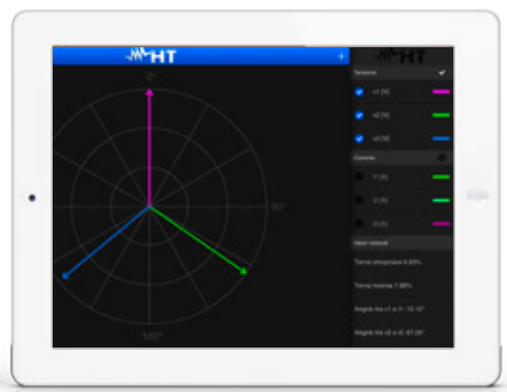
Live.
Real time analysis.

Using Wi-Fi connection you can display wave forms, vector diagrams, harmonics and all electrical parameters for each phase on your tablet/smartphone/PC.



Voltage and current wave forms

Current and voltage harmonics



Voltage and current vector diagram

Unstoppable.

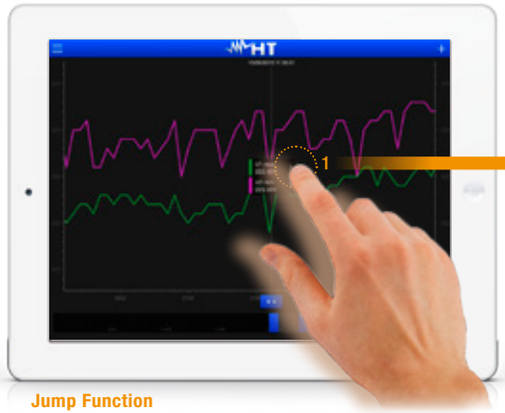
UNLIMITED battery life.
PQA820 gets self-powered during measurement recordings. This features eliminates all problems related to limited life of standard batteries **so avoiding employment of external power supplies.**

Zoom, Zoom, Zoom!
Enlarge, jump, analyze.
Two fingers needed.

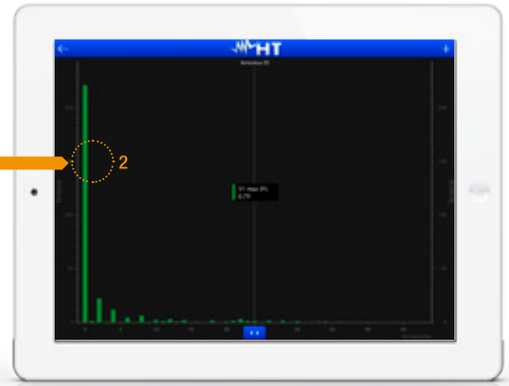
PQA820 helps to dispel the myth that recording analysis is quite complex.
App HTanalysis makes it simple and clear.
Using **ZOOM Functions** you can thoroughly display all the recorded quantities. **JUMP Function** permits to display harmonics in any recording step just by clicking on the quantity.

HTanalysys App can be downloaded for free on AppStore™ or Playstore™

Zoom on voltage and current drop.



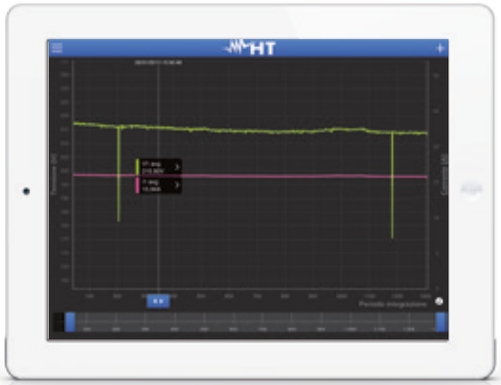
Jump Function
1. Click on arrow close to the value under test.



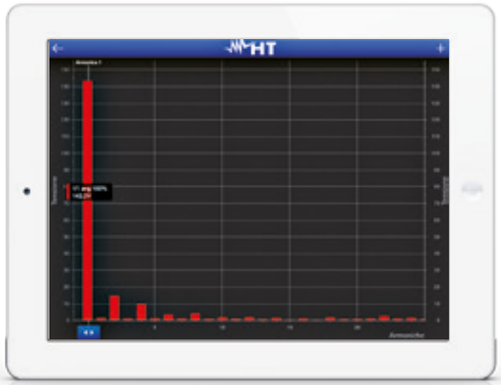
Jump Function
2. Go to real time harmonic values.

We see everything.

PQA820 is **capable** of recording **383 parameters simultaneously** on **THREE-PHASE** and **SINGLE-PHASE 3 or 4 Wire** systems. Thanks to softwares TopView and HTAnalysis (App for tablet and smartphone) you can display the tracking of all the recorded quantities, which can be selected from menu such as: voltages, currents, frequencies and powers, THD%, harmonics up to 49th, cosphi and voltage breaks.Trouble-shooting and pre-emptive service have never been achieved so easily and immediately.



Tracking of the main quantities.



Harmonics up to 49th.

Tracking of all harmonics.

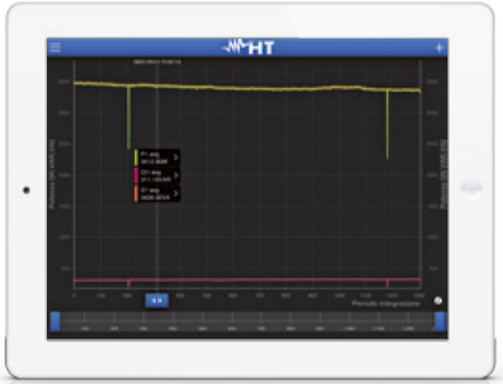
IP65. Rain doesn't scare us.

PQA820 is not afraid of the weather. Thanks to its heavy-duty and waterproof case the instrument is well protected and can be used in any environment.

IP65 - Waterproof and resistant to extreme weather conditions.

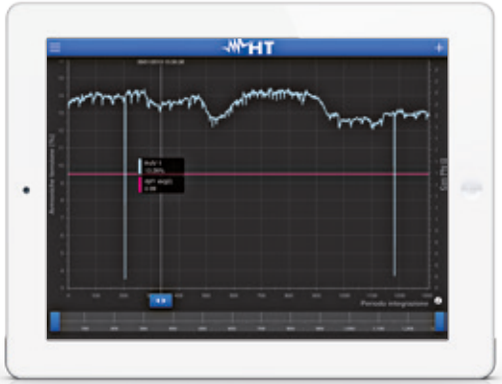
We work, you save up.

PQA820 is capable of recording all active, reactive and apparent powers over a long period, comparing them with cosphi, THD%, harmonics and power factor. Reduction of energy dissipation will be possible thanks to the HTanalysis App.



Tracking of powers.

Jump function to check how much energy was consumed.



Example of analysis on THD% and power factor.

Functions

- DC/AC TRMS voltage (4 inputs)
- DC/AC TRMS current (4 inputs)
- DC and AC active, reactive, apparent power
- Active, reactive, apparent energy
- Power factor and cosPhi
- Analysis of voltage/current harmonic up to 49th order
- Voltage anomalies (sag, swell) with 10 ms resolution
- Voltage unbalance
- LED indication of phase sequence
- Frequency
- Parameter data table, graphs, harmonic histograms, voltage and current phasors with PC or iPad/iPhone and Android device connection
- Max 383 parameters simultaneously selectable
- Recording with integration period ranging between 5s and 60 min

Electrical Specifications

AC TRMS Voltage
Measuring range: 10.0V ÷ 265.0V (L-N)
50.0 ÷ 460.0V (L-L)
Basic accuracy: ±(0.5% reading + 0.2V)
Frequency: 42.5Hz ÷ 69.0Hz

Voltage anomalies (sags, swells)
Measuring range: 15.0V ÷ 265.0V (L-N)
Basic accuracy: ±(1.0% reading + 2 digits)
Time resolution: 10ms @ 50Hz
Time accuracy: ±1/2 period

AC/DC TRMS Current – Standard transducer (STD)
Transduced voltage range: 5.0mV ÷ 9999mV
Resolution: 0.1 mV
Basic accuracy: ±(0.5% reading)
Frequency: 42.5Hz ÷ 69.0Hz

DC and AC Active, Reactive, Apparent power
Measuring range: 0.000 ÷ 9999 kW/kVAR/kVA
Resolution: 0.001 kW/kVAR/kVA
Basic accuracy: ±(0.7% reading)

Active, Reactive energy
Measuring range: 0.000 ÷ 9999 kW/kVAR/kVA
Resolution: 0.001 kW/kVAR/kVA
Basic accuracy: ±(0.7% reading)

Power factor (Cosphi)
Measuring range: 0.20 ÷ 1.00
Resolution: 0.01
Basic accuracy: 0.6° ÷ 1.0°

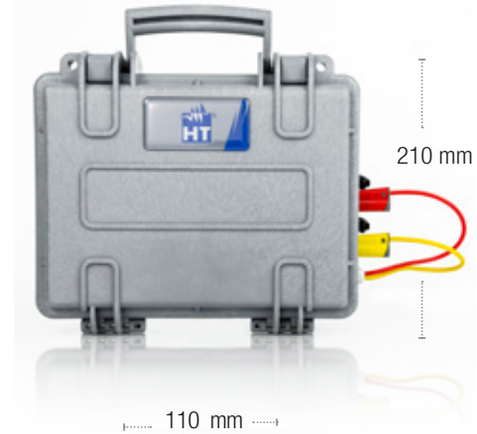
Voltage/Current harmonics
Range: DC ÷ 49th order
Resolution: 0.1V / 0.1A
Basic accuracy: ±(5.0% reading + 2 digits) for DC ÷ 25th order
Frequency: 42.5Hz ÷ 69.0Hz

General Specifications

Simultaneously recorded parameters

- Line to Neutral and Line to Line voltages, DC voltage
- Voltage anomalies (sags, swells)
- Line current, Neutral current, DC current
- Voltage/Current harmonics
- Phase and total Active, Reactive, Apparent power
- Phase and total power factor and cosphi
- Phase and total Active energy (class 2 EN61036)
- Phase and total Reactive energy (class 3 IEC1268)
- Maximum number of selectable parameters: 383
- Maximum number of voltage anomalies: 65530
- Integration period: 5, 10, 30s, 1, 2, 5, 10, 15, 60 min
- Recording duration: > 30 days (IP = 10 min)
- Power supply: rechargeable Li-ION battery
- External power supply: 100 ÷ 415V, 50/60 Hz
- PC interface: USB and WiFi
- Dimensions (L x D x H): 245 x 210 x 110mm 9.6 x 8.3 x 4.3in
- Weight (including batteries): 1.5 kg / 3.3lb
- Safety: IEC/EN61010-1, double insulation
- Pollution degree: 2
- Mechanical protection: IP65
- Measuring category: CAT IV 300V, max 415V among inputs
- Reference standards: EN50160
- Working temperature: 0° ÷ 40°C / 32° ÷ 104°F
- Working humidity: <80%RH
- Storage temperature: -10° ÷ 60°C / 14° ÷ 140°F
- Storage humidity: <80%RH

245 mm



110 mm

Standard accessories

- **KITMPPACW** Set of 4 measuring cables
- **KITMPPACC** Set of 4 alligator clips
- **606-IECN** Adapters with magnetic ends, 4 pcs.
- **HTFLEX33L** 0÷100A, 0÷1000A AC flexible clamp, 174mm, 4 pcs.
- **TOPVIEW2007** PC Windows software + USB cable
- **BORSA2051** Carrying case
- **Quick user's guide**
- **User's manual** on CD-ROM
- **Calibration certificate** ISO9000

KITMPPACW

KITMPPACC

606-IECN (4 pcs)

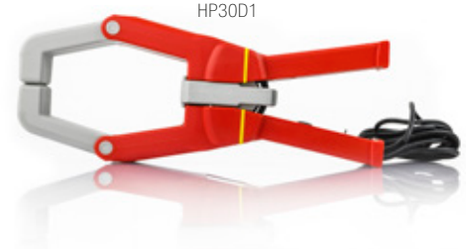
HTFLEX33L (4 pcs)

Optional accessories

- **HP30C2** Clamp transducer 0÷200A, 0÷2000A AC, diameter 70mm
- **HT96U** Clamp transducer 0÷1A, 0÷100A, 0÷1000A AC, diameter 54mm
- **HT98U** Clamp transducer 1000A/1V DC, diameter 50mm
- **HP30D1** Clamp transducer 1000A/1V DC, diameter 83mm
- **HT903** Box 3 x 1 5A/1V for connection to external CTs
- **ACONBIN** Adapter for clamp transducers

HP30C2

HP30D1



HT96U

HT98U

ACONBIN

P Q A 8 2 0

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proArte grafica bsh_PROMOmacroPQA820_EN1-00

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ht-instruments.com

EURO-INDEX
Service

Entretien et calibrage d'instruments de mesure

La succursale d'EURO-INDEX aux Pays-Bas dispose d'un laboratoire de service et de calibrage particulièrement moderne. Les instruments de mesure y sont préventivement entretenus, réparés, calibrés et ajustés si nécessaire. Le laboratoire de service et de calibrage d'EURO-INDEX est divisé en différentes disciplines, en fonction du type d'instrument de mesure et des grandeurs mesurées.

- Pression
- Analyse de gaz
- Température (y compris les mesures de température infrarouge et la thermographie)
- Grandeurs électriques
- Détection de gaz
- Vitesse et débit d'air

Pourquoi un certificat de calibrage ?

Un certificat de calibrage mentionne la déviation d'un instrument de mesure par rapport à nos étalons, traçables aux standards (inter)nationaux. Les résultats de mesure sont consignés sur le certificat avec l'incertitude par rapport aux spécifications indiquées par le fabricant.

En l'absence de certificat de calibrage, vous pouvez supposer que l'instrument soit conforme aux spécifications d'usine, mais vous ne pouvez pas le prouver. Un certificat d'essai du fabricant est trop concis pour démontrer la linéarité et n'est pas nominatif (ce qui, en fait, est une exigence).

MQS®

MQS® est un système de services exclusif pour l'entretien périodique et le calibrage de vos instruments de mesure. De multiples aspects sont réglés pour vous, afin de vous libérer de tout souci lors de l'utilisation de vos instruments de mesure.

- Le prix est fixé pour la durée de vie de l'instrument (à condition d'effectuer les opérations MQS® périodiquement au laboratoire de calibrage d'EURO-INDEX suivant les avis de recalibrage)
- Aucun frais de main-d'œuvre n'est requis lors d'une opération MQS
- Calibrage avant ajustage (précalibrage) si possible
- Ajustage et (post)calibrage si nécessaire
- Réparation et entretien préventif
- Appel gratuit avec avis de recalibrage
- Contrôle des fonctionnalités de l'instrument
- Cinq ans d'historique pour toutes les données
- 10 % de remise sur les pièces de rechanges
- Enregistrement du numéro de série
- Livraison franco par retour

Accréditation RvA

Le laboratoire de calibrage d'EURO-INDEX dispose depuis le 21 août 1997 d'une accréditation RvA NEN-EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le 'scope' du numéro d'accréditation K105 sur www.rva.nl. Un certificat de calibrage d'instruments de test et de mesure peut être livré pour les grandeurs stipulées dans le 'scope' précité. Les mesures sont effectuées à l'aide d'étalons dont la traçabilité aux standards (inter)nationaux a été démontrée à l'organisme d'accréditation RvA (« Raad voor Accreditatie » - Pays-Bas).

L'Accord Multilatéral entre les États membres de la Communauté européenne régit l'acceptation mutuelle des organismes d'accréditation. Un certificat de calibrage de la RvA est donc internationalement valable. En outre, un certificat de calibrage RvA renseigne l'incertitude sur les résultats de mesures effectuées.

Location d'instruments de mesure

EURO-INDEX propose un assortiment d'instruments de mesure en location. Nous déterminons quel instrument vous convient dans le cadre de vos activités spécifiques, suivant l'avis professionnel d'un de nos spécialistes produits. Les instruments sont livrés complet avec leurs accessoires, y compris les certificats de calibrage traçables.

Sous réserve de modifications EURO-INDEX® FR 13001

EURO INDEX
INSTRUMENTS DE MESURE & CALIBRAGE
ACCESSOIRES DE CHAUFFAGE

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F: 02 - 757 92 64
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vente@euro-index.be

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MANAGEMENTSYSTEEM CERTIFICATIE ISO 9001 DNV
kenteq erkend leerbedrijf
RvA KALIBRATIE RvA K 105
PORTÉE ACCRÉDITÉE VOIR www.rva.nl